

G5-M2-Lesson 19

1. Divide, and then check.

a. $87 \div 40$

I use the estimation strategy from the previous lesson to help me solve.
 $80 \div 40 = 2$. The estimated quotient is 2.

I write the remainder of 7 here next to the quotient of 2.

$$\begin{array}{r} 2 \text{ R } 7 \\ 40 \overline{) 87} \\ - 80 \\ \hline 7 \end{array}$$

2 groups of 40 is equal to 80.

The difference between 87 and 80 is 7.

I check my answer by multiplying the divisor of 40 by the quotient of 2 and then add the remainder of 7.

Check:

$$40 \times 2 = 80$$

$$80 + 7 = 87$$

This 87 matches the original dividend in the problem, which means I divided correctly. The quotient is 2 with a remainder of 7.

b. $451 \div 70$

I estimate to find the quotient. $420 \div 70 = 6$

The quotient is 6 with a remainder of 31.

$$\begin{array}{r} 6 \text{ R } 31 \\ 70 \overline{) 451} \\ - 420 \\ \hline 31 \end{array}$$

Check:

$$70 \times 6 = 420$$

$$420 + 31 = 451$$

After checking, I see that 451 does match the original dividend in the problem.

The quotient is 6 with a remainder of 31.

2. How many groups of thirty are in two hundred twenty-four?

I use division to find how many 30's are in 224. But first, I estimate to find the quotient. $210 \div 30 = 7$

There are 7 groups of thirty in 224 with a remainder of 14.

$$\begin{array}{r} 7 \text{ R } 14 \\ 30 \overline{) 224} \\ - 210 \\ \hline 14 \end{array}$$

14 is remaining. In order to make another group of 30, there would need to be 16 more in the dividend, 224.

There are 7 groups of thirty in two hundred twenty-four.